

IN THE CLAIMS

Please amend the claims as follows:

1-13. (Cancelled).

14. (Currently Amended) A method of operating a wireless network, comprising:
detecting at least one signal of an external radio source, by a network device of said wireless network, while data is transmitted over the wireless network and said network device does not send data to another network device of said wireless network; [[and]]
changing a communication channel or frequency band, if said at least one signal overlaps with a currently used communication channel or frequency band; and
setting a transmitting power level of said network device such that a receiving power level at said another network device lies between a first threshold and a second threshold,
wherein
in the step of setting the transmitting power level, said second threshold represents a detection level of radar signals, radar signals having a higher signal level than said detection level are detectable with a first detection rate, and radar signals having a lower signal level than said detection level are detectable with a second detection rate, said first detection rate being higher than said second detection rate.

15. (Previously Presented) The method according to claim 14, wherein said step of detecting is performed by at least one further network device of said wireless network, and
said further network device does not send data to another network device of said wireless network.

16. (Previously Presented) The method according to claim 14, wherein said step of detecting is performed during a non-transmission period of a MAC frame.

17. (Cancelled).

18. (Currently Amended) The method according to claim ~~[[17]]~~ 14, wherein in the step of setting the transmitting power level, said first threshold is set to comply with a sensitivity specified according to a standard of the wireless network.

19. (Cancelled).

20. (Previously Presented) The method according to claim 14, wherein, upon detection of said at least one signal of said external radio source, said network device sends a first message to a central controlling network device of said wireless network, said first message indicating that said at least one signal has been detected.

21. (Previously Presented) The method according to claim 20, wherein, when said central controlling network device has received said first message, said central controlling network device sends an acknowledge message to said network device.

22. (Currently Amended) A computer-readable storage medium having embedded therein instructions that cause a computer to execute a method of operating a wireless network, comprising:

detecting at least one signal of an external radio source, by a network device of said wireless network, while data is transmitted over the wireless network and said network device does not send data to another network device of said wireless network; [[and]]

changing a communication channel or frequency band, if said at least one signal overlaps with a currently used communication channel or frequency band; and

setting a transmitting power level of said network device such that a receiving power level at said another network device lies between a first threshold and a second threshold, wherein

in the step of setting the transmitting power level, said second threshold represents a detection level of radar signals, radar signals having a higher signal level than said detection level are detectable with a first detection rate, and radar signals having a lower signal level than said detection level are detectable with a second detection rate, said first detection rate being higher than said second detection rate.

23. (Currently Amended) A network device of a wireless network, comprising:
an RF unit configured to receive a radar signal of an external radio source, and to send/receive a data signal of said wireless network;

a radar detector configured to detect a presence of said radar signal, while data is transmitted over the wireless network and said RF unit does not send the data signal to another network device of said wireless network; [[and]]

a micro processor configured to change a communication channel or frequency band of said RF unit, if said radar signal overlaps with a currently used communication channel or frequency band; and

a power setting unit configured to set a transmitting power level of said network device such that a receiving power level at said another network device lies between a first threshold and a second threshold, wherein

said second threshold represents a detection level of radar signals, radar signals having a higher signal level than said detection level are detectable with a first detection rate, and radar signals having a lower signal level than said detection level are detectable with a second detection rate, said first detection rate being higher than said second detection rate.

24-30. (Cancelled).